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(54) Title: DNA ENCODING FLAVIN-ADENINE-DINUCLEOTIDE-DEPENDENT-D-ERYTHRONATE-4-PHOSPHATE-DEHYDROGENASE, PDXR, AND MICROBIAL PRODUCTION OF VITAMIN B₆

(57) Abstract: The present invention relates to a DNA encoding a novel flavin adenine dinucleotide (FAD)-dependent D-erythronate 4-phosphate (EN4P) dehydrogenase originated from *Sinorhizobium meliloti*, which is involved in vitamin B₆ biosynthesis, and a recombinant microorganism transformed with a vector having the DNA. It also relates to a process for production of vitamin B₆ by using the recombinant microorganism. "Vitamin B₆" as used in this invention includes pyridoxol (PN), pyridoxal and pyridoxamine. Vitamin B₆ is a vitamin indispensable to human beings or other animals, and is used as a raw material of medicines or as feed additives.

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